Index of Claims

Application No.	Applicant(s)	
10/644,311	GRONEMEYER, STEVEN A.	
Examiner	Art Unit	
Bernarr E. Gregory	3662	

4	Rejected
=	Allowed

_	(Through numeral) Cancelled
÷	Restricted

N	Non-Elected
ı	Interference

A	Appeal
0	Objected

Tell File File	Cla	aim	T				Date					1	Cla	im	Г	_
51 52 3. 53 54 55 55 56 7. 57 8. 59 10 = 60 11 = 61 12 = 62 13 = 63 14 = 64 15 = 66 17 = 67 18 = 68 19 = 69 20 = 70 21 = 72 23 = 73 24 = 74 25 = 77 28 = 79 30 = 80 31 = 82 32 = 82 33 = 83 34 = 84 35 = 85 36 86 37 - 79 30 = 80 31 = 82 33 = 82 33 = 82 33 = 83 34 = 84 35 = 85 </td <td> <u> </u></td> <td></td> <td>\vdash</td> <td>r-</td> <td>\Box</td> <td>Ė</td> <td><u> </u></td> <td>Ϊ</td> <td>Γ</td> <td></td> <td>П</td> <td></td> <td></td> <td></td> <td>П</td> <td>_</td>	<u> </u>		\vdash	r-	\Box	Ė	<u> </u>	Ϊ	Γ		П				П	_
3. 52 3. 53 5. 55 5. 56 7. 57 8. 58 9. 60 11 = 61 12 = 62 13 = 63 14 = 64 15 = 65 16 = 66 17 = 67 18 = 68 19 = 69 20 = 70 21 = 72 23 = 74 25 = 75 26 = 77 28 = 77 29 = 79 30 = 80 31 = 82 33 = 80 31 = 82 33 = 86 37 88 39 90 41 91 42 92 43 94 45 96 96 97 97 98	Final	Original	8/31/04										Final			
5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 6. 6. 11 =		7	1		1	l					1			51		
5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 6. 6. 11 =		2.			-	F		-	F	-	1			52		Ī
5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 6. 6. 11 =		3		\vdash										53		Ī
55 56 72 58 59 60 10 = 60 11 = 62 13 = 63 14 = 65 15 = 66 17 = 66 18 = 66 19 = 69 20 = 70 21 = 72 23 = 73 24 = 77 25 = 76 27 = 77 28 = 79 30 = 80 31 = 82 33 = 83 34 = 84 35 = 85 36 87 38 88 39 = 90 40 90 41 91 42 92 43 94 45 96 47 97 48 99		A		F						\vdash				54		Ī
6. 56 7. 58 9. 60 10 = 60 11 = 61 12 = 62 13 = 63 14 = 64 15 = 65 16 = 66 17 = 68 19 = 69 20 = 70 21 = 71 22 = 73 24 = 74 25 = 75 26 = 76 27 = 77 28 = 79 30 = 80 31 = 80 31 = 82 33 = 83 34 = 84 35 = 85 36 86 37 88 39 89 90 90 41 91 42 92 43 94 45 96 46 96 47 97		3					—	F			-			55		Ī
% 57 10 = 58 10 = 60 11 = 61 12 = 62 13 = 63 14 = 64 15 = 65 16 = 66 17 = 68 19 = 69 20 = 70 21 = 71 22 = 73 24 = 75 26 = 76 27 = 77 28 = 79 30 = 80 31 = 82 33 = 83 34 = 82 33 = 83 34 = 84 35 = 86 37 87 38 88 39 90 41 90 41 90 42 92 43 94 45 96 46 96 47 97 48 99 <td></td> <td>_</td> <td></td> <td>=</td> <td>\vdash</td> <td>F</td> <td>_</td> <td>-</td> <td>-</td> <td>_</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>Ī</td>		_		=	\vdash	F	_	-	-	_	-					Ī
8 58 9 60 11 = 62 13 = 63 14 = 64 15 = 66 17 = 66 18 = 66 19 = 69 20 = 70 21 = 72 23 = 73 24 = 74 25 = 76 27 = 77 28 = 79 30 = 80 31 = 80 32 = 83 34 = 84 35 = 85 36 86 37 88 39 89 40 90 41 91 42 92 43 94 45 96 46 96 96 96				_					F	\vdash	-			57		_
9 59 10 = 60 11 = 61 12 = 63 13 = 64 15 = 65 16 = 66 17 = 66 18 = 68 19 = 69 20 = 70 21 = 72 23 = 73 24 = 75 25 = 76 27 = 77 28 = 76 27 = 78 29 = 79 30 = 80 31 = 80 33 = 83 34 = 84 35 = 86 37 38 84 38 88 86 37 38 86 37 38 89 40 90 90 41 90 90 41 90 90 42 92 92 43 94 94 45 95 95 46 96 96									_		1				П	_
10 = 60 11 = 60 11 = 61 12 = 62 13 = 63 14 = 64 15 = 66 16 = 66 17 = 66 18 = 68 19 = 69 20 = 70 21 = 77 23 = 73 24 = 75 26 = 76 27 = 77 28 = 76 29 = 79 30 = 80 31 = 80 33 = 83 34 = 84 35 = 86 37 38 86 37 38 86 37 38 86 37 38 87 38 89 99 40 90 90 41 91 91 42 92 92 43 94 94 45 96 96 47 97 98 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>=</td> <td>-</td> <td>_</td> <td></td> <td></td> <td>59</td> <td>П</td> <td>_</td>									=	-	_			59	П	_
11 = 61 12 = 62 13 = 63 14 = 65 16 = 66 17 = 67 18 = 68 19 = 68 20 = 70 21 = 72 23 = 73 24 = 74 25 = 76 27 = 77 28 = 79 30 = 79 30 = 80 31 = 81 32 = 80 31 = 81 32 = 83 33 = 84 35 = 85 36 86 86 37 87 88 39 90 90 41 91 92 43 94 94	-		=	Г	_	\vdash			┪	\vdash				60		Ī
12 = 62 13 = 63 14 = 64 15 = 65 16 = 66 17 = 68 19 = 68 20 = 70 21 = 71 22 = 73 24 = 74 25 = 75 26 = 76 27 = 77 28 = 78 29 = 79 30 = 80 31 = 81 32 = 82 33 = 83 34 = 84 35 = 86 37 87 38 88 39 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97 48 99	<u> </u>		╘		_	Н	\vdash	\vdash		_				61	П	-
13 = 63 14 = 65 15 = 66 17 = 66 17 = 68 19 = 69 20 = 70 21 = 71 22 = 72 23 = 73 24 = 74 25 = 76 27 = 77 28 = 78 29 = 79 30 = 80 31 = 82 33 = 82 33 = 83 34 = 84 35 = 85 36 37 87 38 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97	<u> </u>		=	\vdash	Н	Н	\vdash	T	1	H				62	П	_
14 = 64 15 = 65 16 = 66 17 = 67 18 = 68 19 = 69 20 = 70 21 = 71 22 = 72 23 = 73 24 = 75 26 = 76 27 = 77 28 = 78 29 = 79 30 = 80 31 = 82 33 = 82 33 = 82 33 = 84 35 = 85 36 37 87 38 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97	<u> </u>	13	=	l –	H	Н	H	\vdash	\vdash	Н				63	П	_
15 = 65 16 = 66 17 = 68 19 = 69 20 = 70 21 = 71 22 = 72 23 = 73 24 = 74 25 = 75 26 = 77 28 = 78 29 = 79 30 = 80 31 = 81 32 = 82 33 = 84 35 = 85 36 86 37 87 38 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98			-	_	\vdash	\vdash	┢	t^-	╁	┢	Н			64	Н	_
16 = 66 17 = 66 18 = 68 19 = 69 20 = 70 21 = 71 22 = 72 23 = 73 24 = 74 25 = 75 26 = 76 27 = 77 28 = 79 30 = 80 31 = 81 32 = 82 33 = 84 35 = 85 36 86 37 87 38 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98	├─	15	-	\vdash	Н	-	┢	\vdash	\vdash	\vdash				65	Н	_
17 = 67 18 = 68 19 = 70 20 = 70 21 = 71 22 = 72 23 = 73 24 = 74 25 = 75 26 = 76 27 = 77 28 = 79 30 = 80 31 = 80 31 = 82 33 = 82 33 = 84 35 = 85 36 36 86 37 38 88 39 40 90 41 91 91 42 92 43 94 44 94 45 96 47 97 48 99 99 99	├		-	\vdash	┢	\vdash	┢	┢	\vdash	\vdash	-			66	Н	_
18 = 68 19 = 70 20 = 70 21 = 71 22 = 72 23 = 73 24 = 74 25 = 75 26 = 76 27 = 77 28 = 79 30 = 80 31 = 81 32 = 82 33 = 83 34 = 84 35 = 85 36 86 37 87 38 88 39 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98	├		-	-	┢	\vdash	┢	\vdash		H	H			67	Н	_
19 = 69 20 = 70 21 = 71 22 = 72 23 = 73 24 = 74 25 = 75 26 = 76 27 = 77 28 = 79 30 = 80 31 = 81 32 = 82 33 = 83 34 = 84 35 = 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98 49 99	 		⊢	-	┢	\vdash	┢	\vdash	-	┢	Н			68	H	_
20 = 70 21 = 71 22 = 72 23 = 73 24 = 74 25 = 75 26 = 76 27 = 77 28 = 79 30 = 80 31 = 81 32 = 82 33 = 83 34 = 84 35 = 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98 49 99	 		-	\vdash		\vdash	⊢	\vdash	-	┝	\vdash			60	Н	Г
21 = 71 22 = 72 23 = 73 24 = 74 25 = 75 26 = 76 27 = 77 28 = 79 30 = 80 31 = 81 32 = 82 33 = 83 34 = 84 35 = 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 94 45 95 46 96 47 97 48 98			-	-		⊢	\vdash	⊢	-	-	H			70	H	_
22 = 72 23 = 73 24 = 74 25 = 75 26 = 76 27 = 77 28 = 79 30 = 80 31 = 81 32 = 82 33 = 83 34 = 84 35 = 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 94 45 96 47 97 48 98 49 99		21	-	-	H	⊢	\vdash	╁	├	⊢	\vdash			71	H	г
23 = 73 24 = 74 25 = 75 26 = 76 27 = 77 28 = 79 30 = 80 31 = 81 32 = 82 33 = 83 34 = 85 36 86 85 37 87 88 39 88 89 40 90 90 41 91 91 42 92 43 94 45 95 46 96 47 97 48 98 49 99			-	⊢	├	 	⊢	╢	-	├	Н				\vdash	_
24 = 74 25 = 75 26 = 76 27 = 77 28 = 79 30 = 80 31 = 81 32 = 82 33 = 83 34 = 85 36 86 85 37 87 88 39 89 90 40 90 90 41 91 91 42 92 93 44 94 94 45 96 96 47 97 98 48 99 99		22	⊢	<u> </u>	⊢	\vdash	\vdash	⊢	├-	⊢	\vdash			72	Н	_
25 = 75 26 = 76 27 = 77 28 = 78 29 = 80 31 = 81 32 = 82 33 = 83 34 = 85 36 86 87 38 88 88 39 89 89 40 90 90 41 91 92 43 93 93 44 94 94 45 96 96 47 97 98 49 99 99	-	23	-	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>		⊢	H			74	\vdash	_
26 = 76 27 = 77 28 = 78 29 = 79 30 = 80 31 = 81 32 = 82 33 = 83 34 = 85 36 86 86 37 87 88 39 89 89 40 90 90 41 91 91 42 92 92 43 93 94 44 94 95 46 96 96 47 97 98 49 99 99			-		⊢	⊢	\vdash		⊢	⊢				75	\vdash	_
27 = 77 28 = 78 29 = 79 30 = 80 31 = 81 32 = 82 33 = 83 34 = 85 36 86 87 38 88 89 40 90 90 41 91 91 42 92 92 43 93 94 44 94 95 46 96 97 48 98 99	├	25	-	-	├	<u> </u>	├	<u> </u>	-	⊢	H			70	\vdash	_
28 = 78 29 = 79 30 = 80 31 = 81 32 = 82 33 = 83 34 = 84 35 = 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 93 44 94 45 96 47 97 48 98 49 99	<u> </u>		-	_	L	<u> </u>	<u> </u>	 	⊢	\vdash	H			70	\vdash	-
29 = 79 30 = 80 31 = 81 32 = 82 33 = 83 34 = 84 35 = 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 93 44 94 45 96 47 97 48 98 49 99	<u> </u>		-	_	L	_	-	⊢	⊢	⊢	H					-
30 = 80 31 = 81 32 = 82 33 = 83 34 = 84 35 = 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 93 44 94 45 96 47 97 48 98 49 99	<u> </u>	28	-	<u> </u>	<u> </u>	_	\vdash	L	<u> </u>	 				78	\vdash	_
31 = 81 32 = 82 33 = 83 34 = 84 35 = 85 36 86 37 87 38 86 39 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98 49 99	<u> </u>		-	L.	<u> </u>	_	L	⊢	_		_				Н	-
32 = 82 33 = 83 34 = 84 35 = 85 36 86 37 87 38 86 39 89 40 90 41 91 42 92 43 94 44 94 45 96 47 97 48 98 49 99	<u> </u>		-	L.	L_	_	╙	╙	┡	┞_	_			80	\vdash	-
33 = 34 = 35 = 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99	<u> </u>		-	<u> </u>		_	L	L	_	<u> </u>	_			81	\sqcup	-
34 = 84 35 = 85 36 86 37 87 38 87 39 89 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99		32	-	<u> </u>	L	L_		L	_	╙	_			82	Ш	-
35 = 85 36 86 37 87 38 88 39 89 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99		33	=	<u>_</u>	L	L	L.	╙	_	_	Ш			83	Щ	-
36 86 37 87 38 88 39 90 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99	<u> </u>		ᆖ	<u> </u>	<u> </u>	—	L	—	!	<u> </u>	\vdash		ļ	84	\sqcup	_
37 87 38 88 39 89 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99		35	트	<u> </u>	<u> </u>	<u> </u>	! _	_	<u> </u>	Ь	 				\sqcup	-
38 88 39 90 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99	<u></u>	36	L_	<u> </u>	<u> </u>	\vdash	ļ	—	—	!	 			86	\sqcup	L
39 89 40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99	<u> </u>	37	$ldsymbol{f eta}$	<u> </u>	<u> </u>	ļ	\vdash	\vdash	\vdash	<u> </u>	 			87	\vdash	H
40 90 41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99	<u></u>		<u> </u>	—	—	 	<u> </u>	<u> </u>	L	ļ					\sqcup	L
41 91 42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99	<u> </u>	39	L	L	<u></u>	<u> </u>	<u> </u>	<u> </u>	L	<u> </u>	Щ			89	Ш	L
42 92 43 93 44 94 45 95 46 96 47 97 48 98 49 99	L	40	L	<u> </u>	_	匚	<u> </u>	<u> </u>	\vdash	<u> </u>				90	Ш	L
43 93 44 94 45 95 46 96 47 97 48 98 49 99			<u> </u>	oxdot	$ldsymbol{f eta}$	┞	_	<u> </u>	\vdash	<u> </u>	 				⊢	L
44 94 45 95 46 96 47 97 48 98 49 99	<u></u>	42	<u> </u>	L	∟	<u> </u>	<u></u>	<u> </u>	\vdash	_	 				\sqcup	-
45			<u></u>	<u>L</u>	1_	$ldsymbol{f eta}$	<u> </u>	<u> </u>	Щ	<u> </u>	\sqcup				Ш	L
46			乚	匚	_	<u> </u>	<u> </u>	_	oxdot	_	Ш				Ш	L
47 97 98 98 49 99 99				_	L	<u> </u>	<u> </u>	_	<u> </u>	_	Ш				Ш	L
48 98 99 99 1			\Box	匚	乚	L	_	<u> </u>	_	L_					Ш	L
49 99	L			_	$oxedsymbol{oxed}$	L	_		L	L					Ш	L
				L	匚					سَـــــــــــــــــــــــــــــــــــــ					\Box	L
					\Box			匚		匚					Ш	L
		50					\Box							100	$oxed{oxed}$	L

Cla	im					Date	<u> </u>				
Final	Original										
	51										
	52										
	51 52 53										
	54										
	55 56										
	56										
	57										
	58									_	
<u></u>	59										
	60	_					_				
<u></u>	61 62 63	L			lacksquare	Ш			L		
	62	<u> </u>				Ш			L	-	
	63	L		\Box	<u> </u>	Ш				_	
<u> </u>	64 65	L				Н	_	_	_		
-	65	<u> </u>	\vdash		\vdash	Н	<u> </u>		_		
\vdash	66 67	-	_		\vdash	Н		-	_	-	
	6/				\vdash			\vdash	_	_	
<u> </u>	68 69	H	_		\vdash	\vdash	\vdash	_	\vdash	_	
<u> </u>	70	_		-		\vdash	_			-	
-	70	H		_	\vdash	Н	⊢	-		_	
	72		_		-	H			\vdash		
	73	H	_	-		\vdash	\vdash		Н		
	74	\vdash	_			Н	\vdash			_	
	75	\vdash	_			Н			_	-	
	76										
	77							_			
	71 72 73 74 75 76 77										
	79										
	80										
	81										
	82										
<u></u>	83					Ш					
L	84					Ш	\Box		Щ		
<u> </u>	85		_					_			
<u> </u>	86	Ш				Ш	\perp		_		
L	87	_	Ш			Ш		<u> </u>	L	_	
	88	_	_			Ш		<u> </u>		_	
	89	_					_	_	<u> </u>		
-	90		-	-	\vdash	Н		\vdash	⊢		
	91 92	<u> </u>	_	\vdash		Ш	⊢	<u> </u>	⊢	_	
		-	H	_	_		-	┡	-	_	
-	93 94	-	H	-	\vdash	<u> </u>	\vdash	\vdash	-	-	
	95	\vdash	\vdash	\vdash	\vdash	\vdash	<u> </u>	├		\vdash	
	96	-	\vdash	\vdash	\vdash	\vdash	\vdash	⊢	-	-	
\vdash	97	\vdash	Η.	H	\vdash	\vdash	\vdash	├	\vdash	\vdash	
\vdash	98	\vdash	H	\vdash	\vdash	\vdash	\vdash	-	\vdash	┢	
\vdash	99	\vdash	H	\vdash	\vdash	\vdash	Н	\vdash		\vdash	
\vdash	100	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	-	├-	

Ci	aim	Date									
Final	Original										
	101										
	102		L	_		Ш		_	_		
<u> </u>	103		L	_		Ш	\vdash	_	<u> </u>	Н	
\vdash	103 104 105	<u> </u>	<u> </u>	-	-			_	┝	\vdash	
	105	\vdash		\vdash			_		⊢	Н	
	106 107	┢	_						┢	H	
	108		Т							П	
	109										
	110	ᆫ	<u> </u>	Ш				_	_	Ш	
	111	<u> </u>	<u> </u>						<u> </u>	Щ	
	112 113	H	\vdash	\vdash	_		_		\vdash	\vdash	
	114	H	⊢	-		_	-		┝	Н	
	115	-	\vdash				\vdash	_	\vdash	Н	
<u> </u>	116										
	117							Ī			
	118									Ш	
ļ	119		<u> </u>			_	oxdot		_	Ш	
	120 121	<u> </u>	⊢	_			<u> </u>	_	<u> </u>		
	121	\vdash	⊢	-			H		┝	├─┤	
	122 123 124	\vdash	⊢	\vdash			-		\vdash	Н	
	124		\vdash				Г	_		М	
	125 126 127										
	126										
	127	<u> </u>	_						<u> </u>	Щ	
ļ	128 129	L	<u> </u>	\vdash			_		⊢	Ш	
	130	┝	⊢	\vdash				_	┝	\vdash	
<u> </u>	131	⊢	⊢	\vdash	_	-			┢	\vdash	
<u> </u>	132	┢	┢	\vdash		_				\vdash	
	133	<u> </u>	m				Т		\vdash		
	134										
	135	L	_					L	L.	_	
ļ.—	136	_	<u> </u>			_	_	_	L_	_	
<u> </u>	137 138	⊢	⊢	H	H	\vdash	-	<u> </u>	├		
-	139	\vdash	├	├	H	\vdash	-	-	┢	\vdash	
_	140	\vdash	┢	\vdash	Н	Н	_	-	\vdash	\vdash	
	141	\vdash	\vdash	\vdash	П	Г				Г	
	142										
	143										
	144	_	L	L	L	L	L	L	L	L	
	145		\vdash	L	L	L	<u> </u>	<u> </u>	<u> </u>	<u> </u> -	
<u> </u>	146 147	_	\vdash	-	<u> </u>	-	-	<u> </u>	\vdash	\vdash	
 	148	\vdash	\vdash	\vdash	\vdash	\vdash	-	\vdash	\vdash	\vdash	
	149	-	\vdash								
	150	Г	\vdash	Г	П		Т	\vdash	Г		
						_	_				